

Claims

- [c1] 1. In a mobile device operable in both a terminal mode and an imaging mode, a method of presenting a user interface display, the method comprising:
determining an operating mode for the mobile device, wherein the operating mode can be one of at least the terminal mode and the imaging mode;
setting a display orientation for the user interface display in accordance with the operating mode, wherein the display orientation is selected from a first orientation normally associated with the terminal mode and a second orientation normally associated with the imaging mode;
and
re-setting the display orientation to the other of the first orientation and the second orientation when the operating mode changes.
- [c2] 2. The method of claim 1 further comprising re-setting the display orientation in accordance with a user indication to override the display orientation normally associated with the operating mode.
- [c3] 3. The method of claim 1 wherein the first orientation is a portrait orientation and the second orientation is a

landscape orientation.

- [c4] 4. The method of claim 3 wherein the setting of the display orientation and the re-setting of the display orientation comprise orientating individual display elements in a normal visual orientation for one of the portrait orientation and the landscape orientation.
- [c5] 5. The method of claim 1 wherein the operating mode of the mobile device is determined by user input.
- [c6] 6. The method of claim 1 wherein the operating mode of the mobile device is determined by the position of a lens cover associated with imaging apparatus in the mobile device.
- [c7] 7. The method of claim 1 wherein the operating mode of the mobile device is determined by an output of an orientation sensor in the mobile device.
- [c8] 8. The method of claim 3 wherein the operating mode of the mobile device is determined by user input.
- [c9] 9. The method of claim 3 wherein the operating mode of the mobile device is determined by the position of a lens cover associated with imaging apparatus in the mobile device.
- [c10] 10. The method of claim 3 wherein the operating mode

of the mobile device is determined by an output of an orientation sensor in the mobile device.

- [c11] 11. Apparatus operable as a mobile device having at least a terminal mode and an imaging mode, the apparatus comprising:
- means for determining an operating mode for the apparatus, wherein the operating mode can be one of at least the terminal mode and the imaging mode;
 - means for setting a display orientation for a user interface display in accordance with the operating mode, wherein the display orientation is selected from a first orientation normally associated with the terminal mode and a second orientation normally associated with the imaging mode; and
 - means for re-setting the display orientation to the other of the first orientation and the second orientation when the operating mode changes.
- [c12] 12. The apparatus of claim 11 further comprising means for re-setting the display orientation in accordance with a user indication to override the display orientation normally associated with the operating mode.
- [c13] 13. The apparatus of claim 11 further comprising means for receiving user input which determines the operating mode of the apparatus.

- [c14] 14. The apparatus of claim 11 further comprising a lens cover associated with the imaging mode, wherein a position of the lens cover determines the operating mode of the apparatus.
- [c15] 15. The apparatus of claim 11 further comprising means for sensing the orientation of the apparatus, wherein the operating mode of the apparatus is determined by an output of the means for sensing the orientation.
- [c16] 16. The apparatus of claim 12 further comprising means for receiving user input which determines the operating mode of the apparatus.
- [c17] 17. The apparatus of claim 12 further comprising a lens cover associated with the imaging mode, wherein a position of the lens cover determines the operating mode of the apparatus.
- [c18] 18. The apparatus of claim 12 further comprising means for sensing the orientation of the apparatus, wherein the operating mode of the apparatus is determined by an output of the means for sensing the orientation.
- [c19] 19. A mobile terminal operable in both a terminal mode and an imaging mode, the mobile terminal comprising: a radio block operable to provide an interface to a wire-

less communication network;
an imaging device associated with the imaging mode;
a visual display operable to present at least a portion of a user interface to a user;
a processor to, at least in part, control the mobile terminal, the processor being operationally connected to the radio block, the imaging device and the visual display;
and
program code stored within the mobile terminal, the program code operable to, using the processor, control the mobile terminal to set a display orientation for the user interface in accordance with a determined, current operating mode selected from the terminal mode and the imaging mode, wherein the display orientation is selected from a first orientation normally associated with the terminal mode and a second orientation normally associated with the imaging mode.

[c20] 20. The mobile terminal of claim 19 wherein the program code further causes the mobile terminal to determine the current operating mode based on user input.

[c21] 21. The mobile terminal of claim 19 further comprising a lens cover switch associated with the imaging device, so that the current operating mode of the mobile terminal is determined by the position of a lens cover associated with the imaging device.

- [c22] 22. The mobile terminal of claim 19 further comprising an orientation sensor operationally connected to the processor so that the current operating mode of the mobile terminal is determined by an orientation of the mobile terminal.
- [c23] 23. The mobile terminal of claim 19 wherein the first orientation is a portrait orientation and the second orientation is a landscape orientation.
- [c24] 24. The mobile terminal of claim 20 wherein the first orientation is a portrait orientation and the second orientation is a landscape orientation.
- [c25] 25. The mobile terminal of claim 21 wherein the first orientation is a portrait orientation and the second orientation is a landscape orientation.
- [c26] 26. The mobile terminal of claim 22 wherein the first orientation is a portrait orientation and the second orientation is a landscape orientation.
- [c27] 27. In a mobile device operable to perform both an imaging function and terminal functions, a method of processing an image produced by the imaging function for assignment to a terminal function, the method comprising:

receiving a first user indication requesting that the image be assigned to the terminal function, the image having at least one display attribute that makes it at least in part unsuitable for use with the terminal function;
altering the at least one display attribute of the image using a second user input indicating the location of a specific area of the image on a display screen so that the image is more suitable for use with the terminal function; and
assigning the image to the terminal function.

[c28] 28. The method of claim 27 wherein the altering of the at least one display attribute comprises at least one of resizing, cropping, and rotating the image.

[c29] 29. The method of claim 28 wherein the at least one of resizing, cropping, and rotating is accomplished so that a landscape image can be viewed in a portrait orientation.

[c30] 30. The method of claim 27 wherein the terminal function comprises at least one of a group consisting of a phonebook function, a caller ID function, a screen filler function, and a send function.

[c31] 31. The method of claim 28 wherein the terminal function comprises at least one of a group consisting of a

phonebook function, a caller ID function, a send function, and a screen filler function.

[c32] 32. The method of claim 29 wherein the terminal function comprises at least one of a group consisting of a phonebook function, a caller ID function, a screen filler function, and a send function.

[c33] 33. Apparatus operable as a mobile device having both an imaging function and terminal functions, the apparatus comprising:

means for receiving a first user indication requesting that the image be assigned to the terminal function, the image having at least one display attribute that makes it at least in part unsuitable for use with the terminal function;

means for altering the at least one display attribute of the image using a second user input indicating the location of a specific area of the image on a display screen so that the image is more suitable for use with the terminal function; and

means for assigning the image to the terminal function.

[c34] 34. A mobile terminal comprising both an imaging function and terminal functions, the mobile terminal further comprising:

a radio block operable to provide an interface to a wire-

less communication network;
an imaging device associated with the imaging function;
a visual display operable to present at least a portion of
a user interface to a user;
a processor to, at least in part, control the mobile terminal, the processor being operationally connected to the radio block, the imaging device and the visual display;
and
program code stored within the mobile terminal, the program code operable to, using the processor, control the mobile terminal to receive a first user indication requesting that an image captured by the imaging device be assigned to a terminal function and to alter at least one display attribute of the image using a second user input indicating the location of a specific area of the image on the visual display so that the image is more suitable for use with the terminal function.

[c35] 35. The mobile terminal of claim 34 wherein the program code causes the mobile terminal to alter the at least one display attribute by performing at least one of resizing, cropping, and rotating the image.

[c36] 36. The mobile terminal of claim 35 wherein the at least one of resizing, cropping, and rotating the image is accomplished so that a landscape image can be viewed in a portrait orientation on the visual display.

- [c37] 37. The mobile terminal of claim 34 wherein the terminal function comprises at least one of a group consisting of a phonebook function, a caller ID function, a screen filler function, and a send function.
- [c38] 38. The mobile terminal of claim 35 wherein the terminal function comprises at least one of a group consisting of a phonebook function, a caller ID function, a screen filler function, and a send function.
- [c39] 39. The mobile terminal of claim 36 wherein the terminal function comprises at least one of a group consisting of a phonebook function, a caller ID function, a screen filler function, and a send function.